In reply refer to: OFFICE OF THE POST MEDICAL INSPECTOR STATION

TSC:ml

721.5

REPRODUCEU AL INC.

Fort Huachuca, Arizona, October, 1943.

SUBJECT: Monthly Sanitary Report.

The Commanding Officer, Fort Huachuca, Arizona. Thru: The Director, Medical Division.

1. In compliance with Par. 1c, AR 40-275, as amended by Section III, War Department Circular No. 114, dated June 13, 1941 and letter, The Surgeon General, file 721.5 subject as above, and War Department Circular Letter No. 76, file SPMCA, dated July 27, 1942, the following report on sanitary conditions of the command for the month of September, 1943, is submitted:

#### a. ENVIRONMENTAL SANITATION

#### (1) General:

Environmental sanitation, with the exception of insect control was satisfactory during the past month.

## (2) Water Supply:

- (a) Adequacy of Supply: Water supply was adequate; an average of 619,000 gallons per day was obtained from springs and the remainder from wells.
- (b) Consumption Data: (Potable water) Water consumption continued to be high in spite of less use of water for irrigation:

Average daily consumption 2.5 MGD Minimum daily consumption 1.9 Maximum daily consumption Ħ 2.9 Average per capita per day 116 Gals.

#### (c) Bacteriology:

Raw water before chlorination. With increased flow, the samples from springs have shown improvement; Well No. 2, continues to show evidence of contamination.

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(2) Chlorinated water from distribution system.

Samples from all parts of the distribution system were satisfactory.

Source of Sample	Potable	Non-Potable
Cantonment	21	0
Old Post	5	0
Civilian Housing	1	0
Total	2 <b>7</b>	0

(d) Chlorine Residual: Chlorine residuals were slightly higher than usual, due to the necessity for heavier chlorination of spring water during the first portion of the month:

PPM Chlorine residual: Max. 0.75 Min. 0.3, Aver. 0.46

#### (3) Sewage treatment:

- (a) General: All sewage was treated during the month.

  Efficiency of treatment and economy in use of chemicals were appreciably increased during the month due to the services of an enlisted man assigned to the treatment plant for temporary duty by the division training at the Post. Efforts are being made to have this enlisted man, who is a graduate chemist, transferred to SCU 1922 where his experience in laboratory work would be of great value.
- (b) Flows treated: Because of errors in adjustment of metering equipment during the past month, the figures given below should be regarded as approximate only.

	Plant No. 1	Plant No. 2
Average rate	MGD	MGD
Maximum rate	1.3 *	2.5 W
Minimum rate	0.1 "	0.2 "

(c) Efficiency of treatment: (Monthly Averages)

		int No.	. 1		Plant No	. 2
Sus	p. 50	olids	BOD	Sນ	sp. Solids	BOD
Raw Sewage	169	ppm	228	ppm	126 ppm	238 ppm
Primary offluent	93	H	102	Ħ	65 म	108 *
Reduction	45	<b>%</b>	55	%	48 %	53 %

#### (4) Milk:

- (a) General: Milk for practically all of the units is purchased by contract from a dairy in Tucson. The Post Dairy produces milk served by the Post Exchanges and also supplies milk to a portion of the hospital.
- (b) Post Dairy: Milk from the Post Dairy was satisfactory during the past month. Needed repairs to the dairy barn, equipment, and premises have been started.
- (c) Milk purchased from commercial dairy: Samples of this milk taken during the past month have shown an improvement in bacterial plate count. Phosphotase tests have not been satisfactory, however. Quantity of deliveries and refrigeration in transit have been somewhat improved.

## (5) Garbage and Waste Disposal:

- (a) Garbage: About 80% of the properly separated edible garbage is sold for hog feed. The remainder, together with inedible garbage is buried in trenches in a satisfactory manner. Garbage cans are washed at the incinerators located near the garbage pits.
- (b) Combustible Wastes: Combustible wastes are burned at the two post incinerators. These incinerators, which have no storage space available, are inadequate to handle the peak loads of waste so that some of the material must be burned on a nearby dump which is very difficult to clean up properly. Efforts are being made to decrease the peak load by better spacing of deliveries to the incinerators and by increasing the effort to salvage usable material.

#### (6) Insect and Rodent Control:

- (a) Mosquitoes: A rew mosquitoes (Aedes) have been found on the Post. Most of the potential breeding places have been drained.
- (b) Roaches: Roaches are prevalent in many of the mess halls and, to some extent, in barracks. The current issue of QM insecticide powder (a mixture of pyrethrm and sodium fluoride) is effective, but the allowance of 2 lbs. per 1000 men per month should be considerably increased to permit effective control at this station.
- (c) Bedbugs: During the past two months there has been

a great increase in infestations of bedbugs. In September, 15 buildings were fumigated using hydrocyanic acid discoids and 17 additional buildings are listed for fumigation in October. Heat treatment was tried, but found not effective with existing heating systems. Orders have been issued to all units requiring weekly inspection of bedding and

- (d) Rodents: There is no rodent problem at this Post.
- (7) Food supplies: Food supplies during the month were generally satisfactory. For the seventh consecutive month no poultry has been issued and this has caused some dissatisfaction. See attached Supplementary Report No. 1 for more complete analysis of food and nutrition.

rigid local control measures.

(8) Other Phases of Environmental Sanitation: Housing, drainage and general environmental sanitation are satisfactory.

Little use was made of the two swimming pools during the past month and they are now closed.

## b. PERSONAL HYGIENE:

Personal hygiene is at its usual level at this post. The major problem, Venereal Disease, is covered in Supplementary Report No. 2.

# e. ACUTE COMMUNICABLE DISEASE:

The incidence of all communicable diseases is satisfactorily low. For detailed report see Supplementary Report No. 3.

### d. MONTHLY VETERINARY SANITARY REPORT:

See Supplementary Report No. 4.

# e. ADMINISTRATIVE MEASURES AND DEVICES:

None.

THOMAS S. CASSEDY, Captain, Sanitary Corps, Post Medical Inspector.

Incls: MD Form 95-53 Supplementary Reports No. 1, 2, 3, and h.